

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. – 6 (Cancelled)

7. (Currently Amended) An electronic fuel injection valve comprising:
an orifice plate having an orifice which forms part of a fuel passage whose downstream side end is a fuel injection hole, and a valve seat provided upstream of the orifice;
a movable valve which opens and closes the fuel passage by ~~the engagement contact with~~ and disengagement from said valve seat, respectively;
a driving means having a coil, to drive said movable valve; and
a fuel turn member installed upstream of said valve seat, which member provides turn power to the fuel which flows in said orifice; wherein
~~the an axis line of said orifice is in non-parallel with the an axis center of the electromagnetic said fuel injection valve, and the position where a penetration length of fuel spray is the longest is controllable by adjusting diameter and length of said fuel injection hole.~~

wherein an alternate rich-and-lean distribution of fuel is formed along the circumference of said fuel injection hole, and

a rich region in said alternating rich-and-lean distribution of fuel is positioned so that said rich region may match with the obtuse angle side of the axis line of said non-parallel orifice.

8. (Currently Amended) An electromagnetic fuel injection valve according to claim 7, wherein

~~said fuel injection hole is non parallel with an axis center of the electromagnetic fuel injection valve,~~

~~an exit face of said fuel injection hole is formed with a plane perpendicular to an axis center of said orifice fuel injection hole, and~~

~~the position where the penetration length of fuel spray is the longest is freely controllable by adjusting length of said fuel injection hole along the axis center of said fuel injection hole.~~

9. – 12. (Cancelled)

13. (New) A method of the adjusting of penetration of injected fuel in an electromagnetic fuel injection valve according to claim 7, comprising

with an exit face of said fuel injection hole formed perpendicular to the axis center of said fuel injection hole, determining a length of said fuel injection hole up to the exit face thereof according to a diameter of said injection hole, and providing alternating rich-and-lean distribution of fuel dependent on said fuel turn member.

14. (New) A method of the adjusting of penetration of injected fuel in an electromagnetic fuel injection valve which comprises an orifice plate having an orifice which forms part of a fuel passage whose downstream side end is a fuel injection hole, and a valve seat provided upstream of the orifice; a movable valve which opens and closes the fuel passage by contact with and disengagement from said valve seat, respectively; a driving means having a coil, to drive said movable valve; and a fuel turn member installed upstream of said valve seat which member provides turn power to the fuel which flows in said orifice; comprising arranging an axis line of said orifice is non-parallel with an axis center of said electromagnetic fuel injection valve, and, performing adjustment of injected fuel penetration using the sprayed fuel behavior such that, with a flow passage length of said orifice changed by cutting a surface of said orifice on the side of said fuel injection hole, at least one of a position where the fuel spray is concentrated and a position where the penetration length of fuel spray is the longest shifts in a circumferential direction compared with a position before the flow passage length is changed when fuel is injected under atmospheric pressure.

15. (New) A method of the adjusting of penetration of injected fuel in an electromagnetic fuel injection valve according to claim 14, wherein an exit face of said fuel injection hole is formed approximately perpendicular to an axis center of said orifice.

16. (New) A method of the adjusting of penetration of injected fuel in an electromagnetic fuel injection valve according to claim 14, wherein when an

exit face of said fuel injection hole is formed perpendicular to an axis center of said fuel injection hole, the length of said fuel injection hole up to the exit face thereof being determined according to a diameter of said injection hole, and said alternating rich-and-lean fuel distribution being is dependent on said first turn member.